OIPE
DEC 12 2005
PATENT & TRADEMARK OFFICE

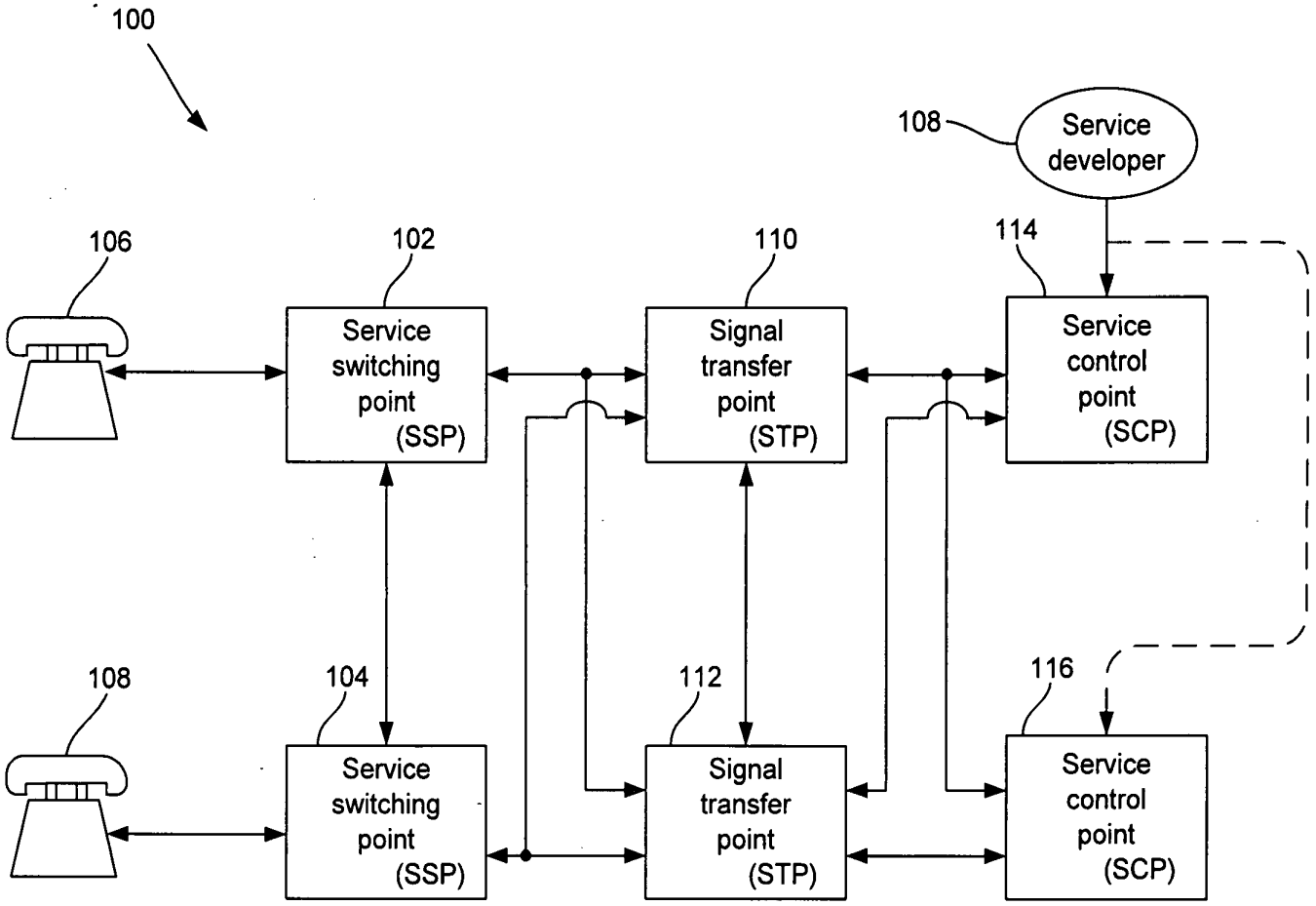

FIG. 1
(Background Art)

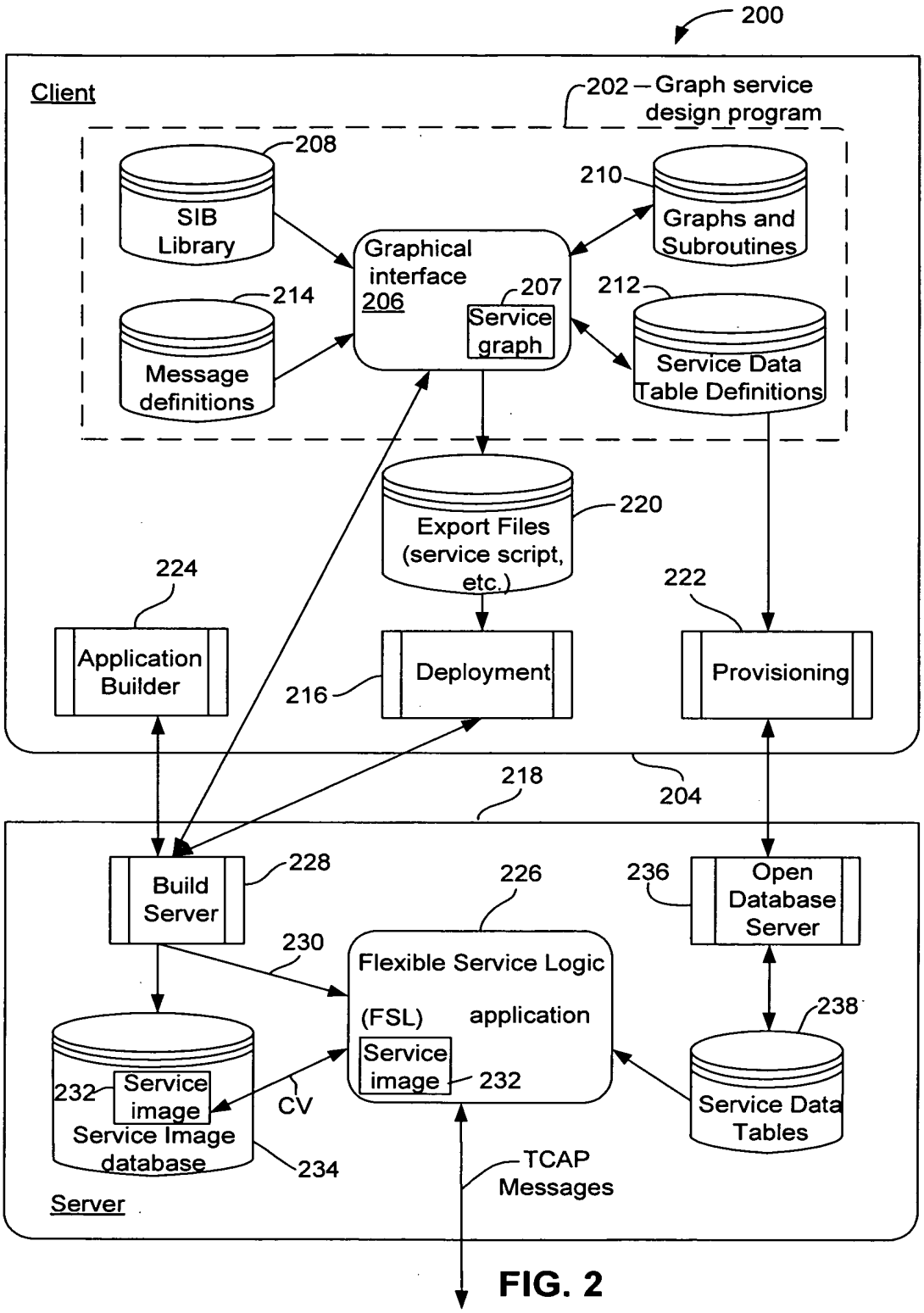
200
Client
202 Graph service design program
208
SIB Library
210
Graphs and Subroutines
Graphical interface 206
207
Service graph
214
Message definitions
212
Service Data Table Definitions
220
Export Files (service script, etc.)
224
Application Builder
222
216
Deployment
Provisioning
218
204
228
Build Server
226
236
Open Database Server
230
Flexible Service Logic (FSL) application
238
Service image
232
232
Service image
CV
Service Image database
234
Service Data Tables
TCAP Messages
Server

FIG. 2

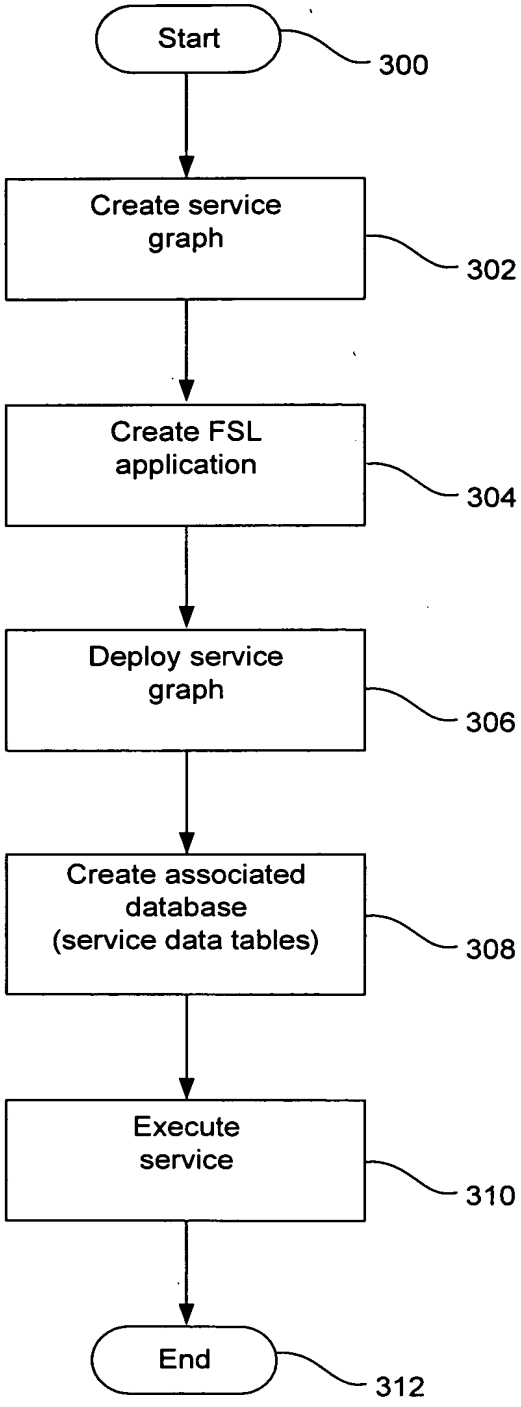
Start
300
Create service graph
302
Create FSL application
304
Deploy service graph
306
Create associated database (service data tables)
308
Execute service
310
End
312

FIG. 3

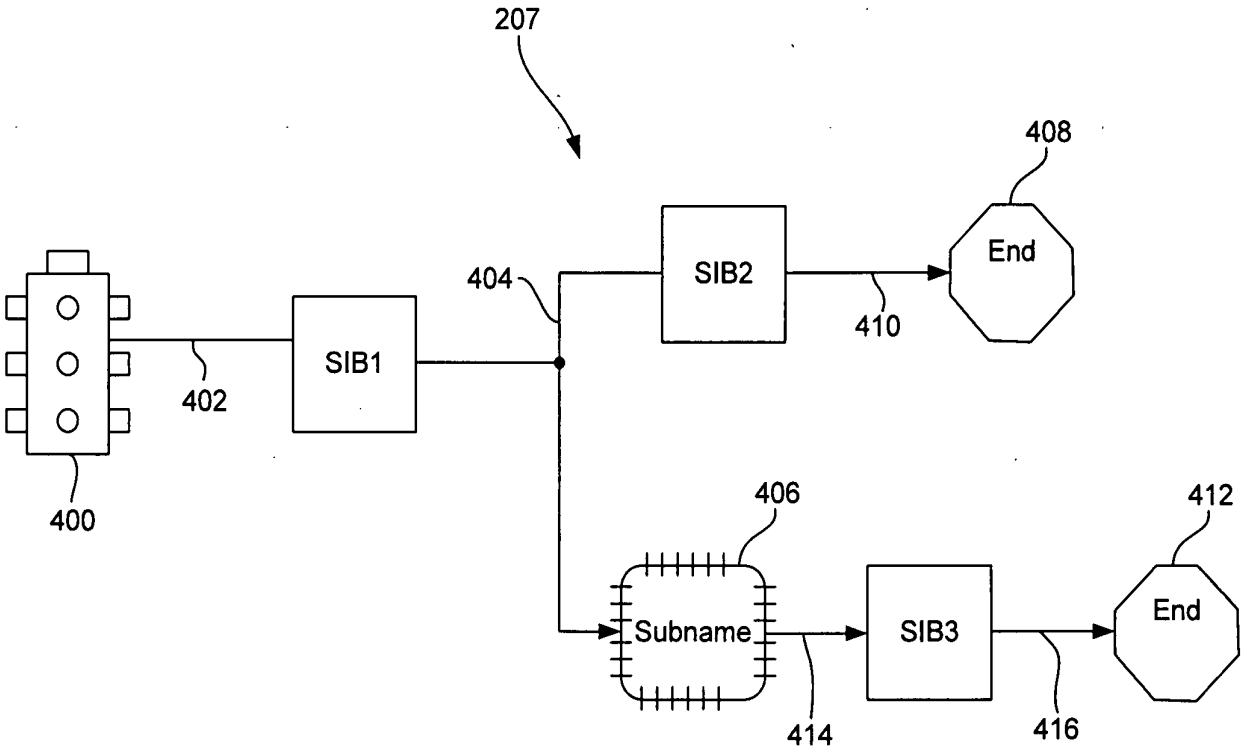
207
408
End
404
SIB2
410
SIB1
402
400
406
412
Subname
SIB3
End
414
416

FIG. 4

Replacement Sheet

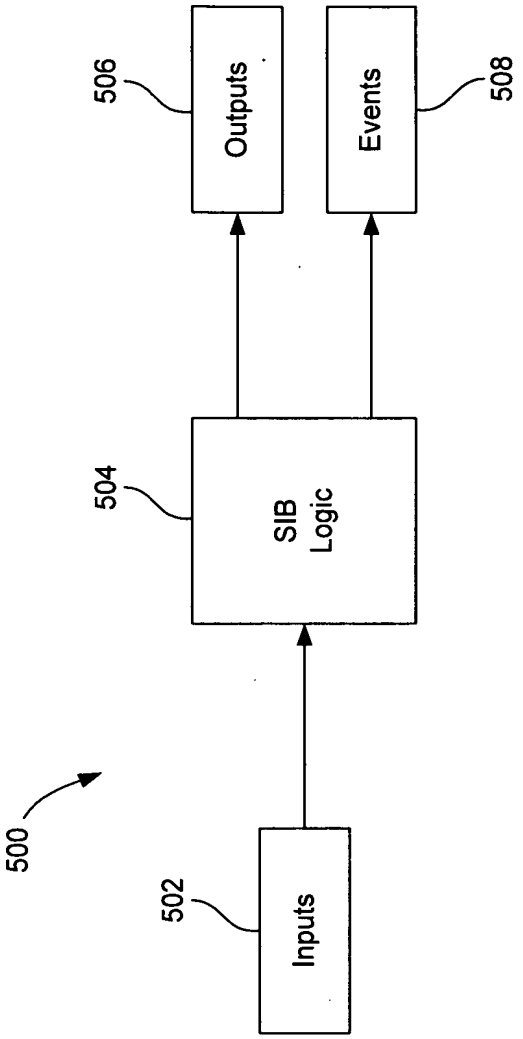

FIG. 5

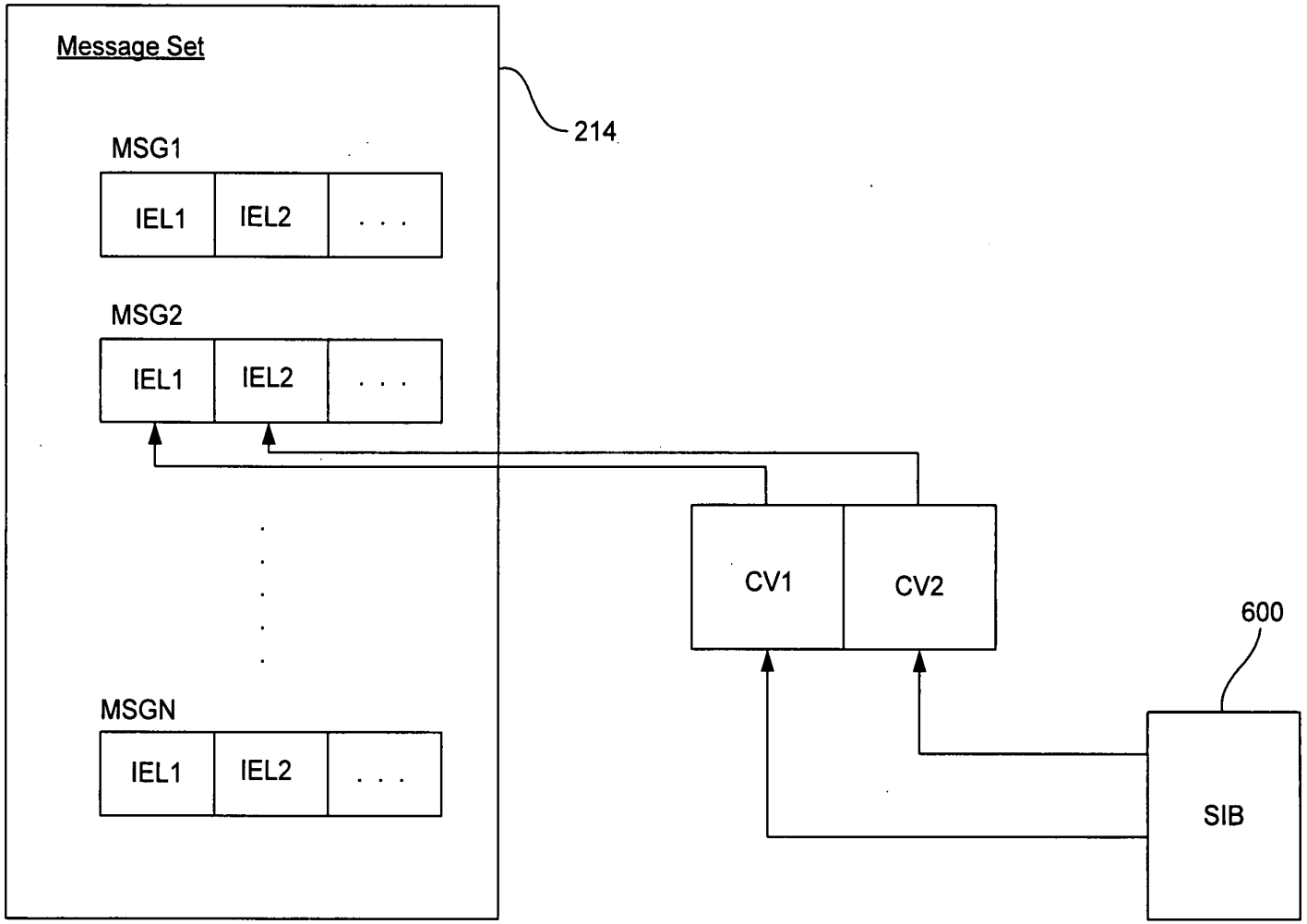
Message Set
214
MSG1
IEL1
IEL2
. . .
MSG2
IEL1
IEL2
. . .
MSGN
IEL1
IEL2
. . .
CV1
CV2
600
SIB

FIG. 6

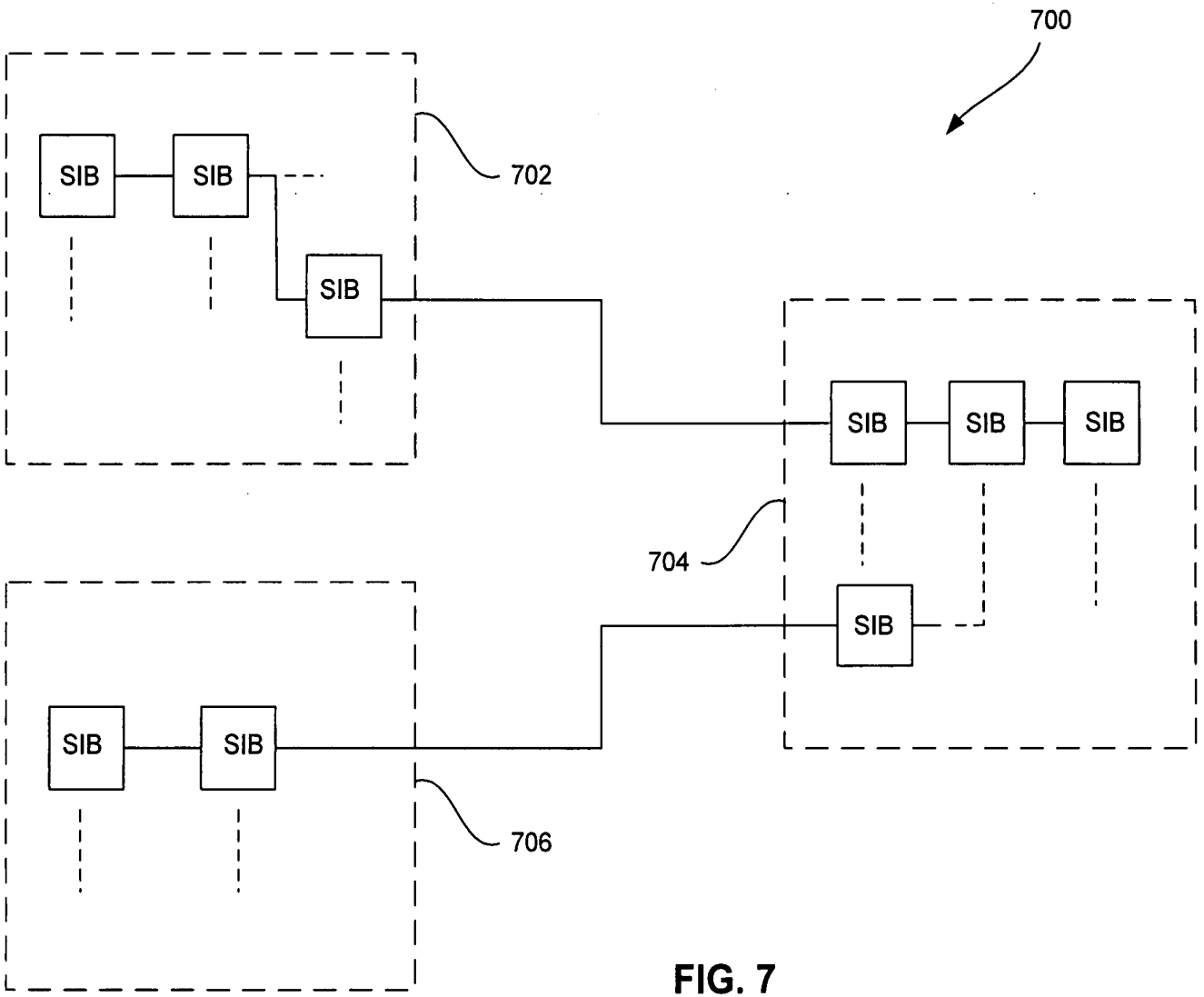

FIG. 7

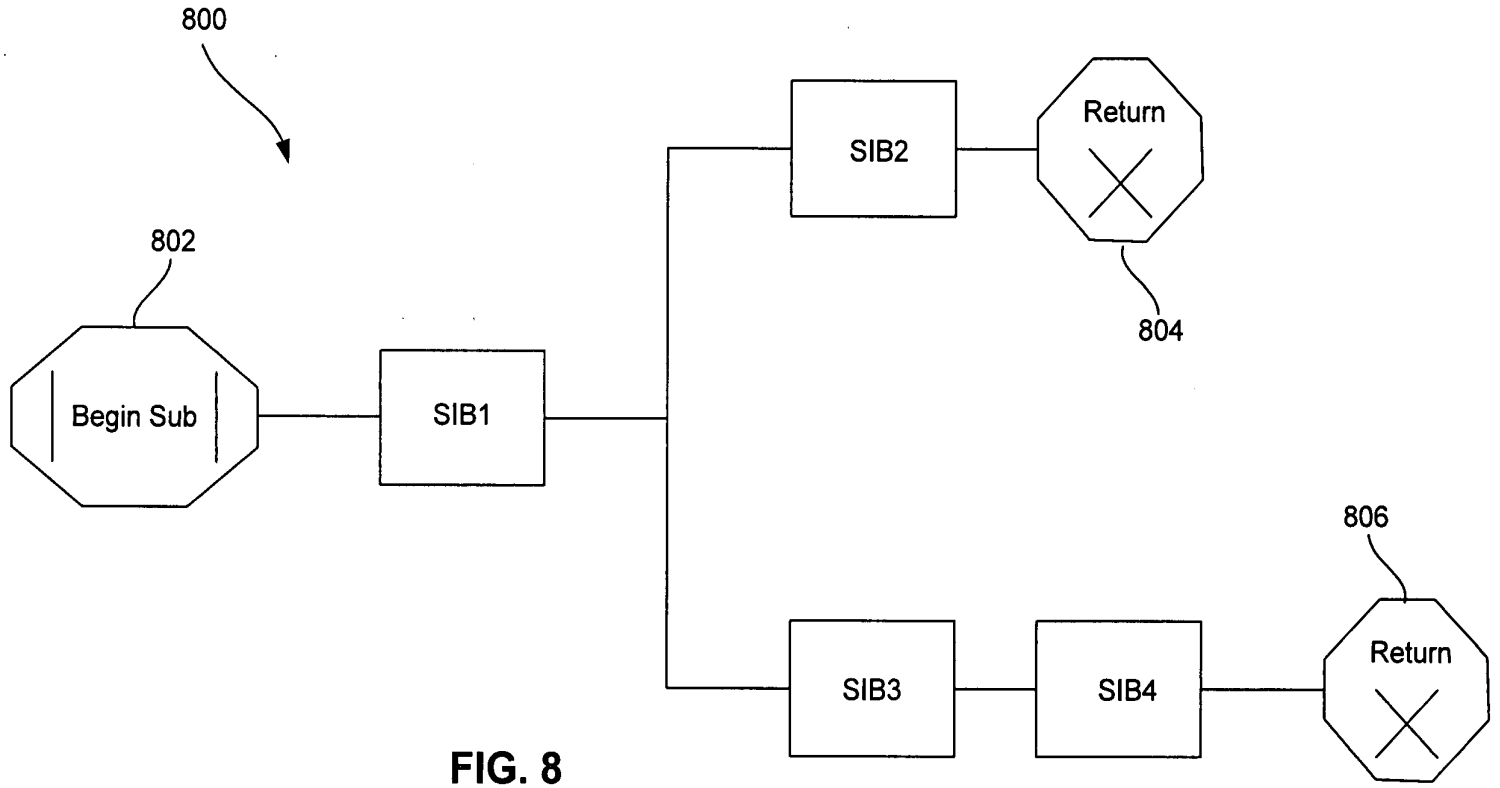

FIG. 8

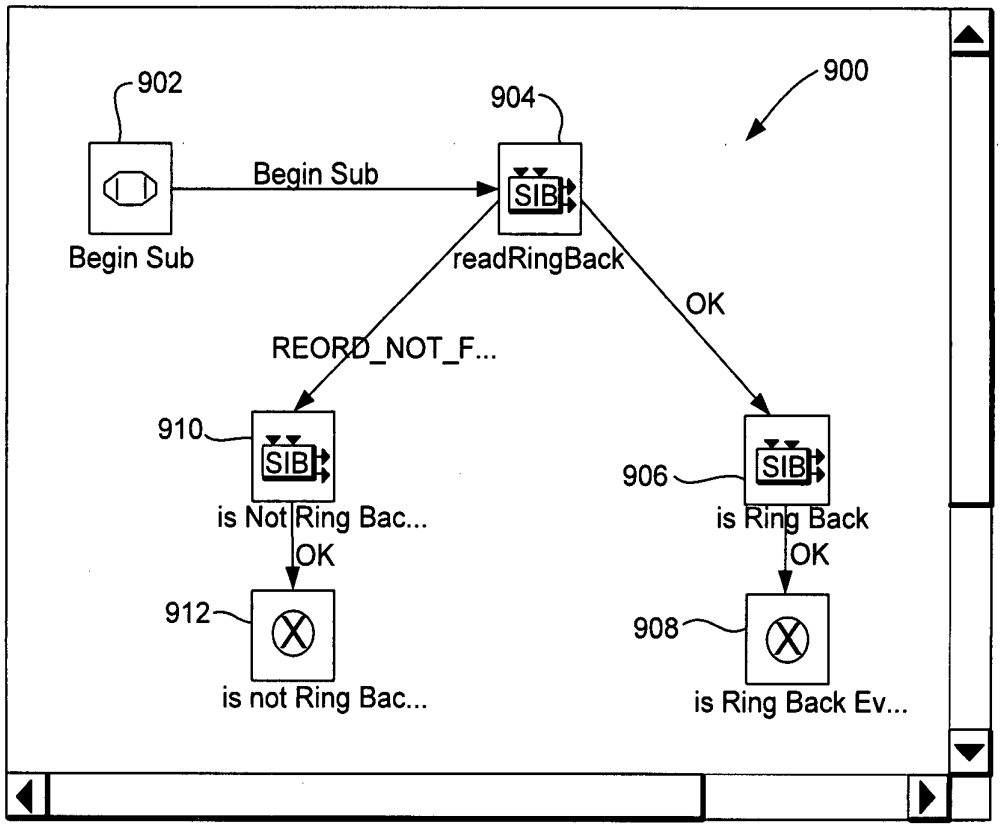
902
904
900
Begin Sub
SIB
Begin Sub
readRingBack
OK
REORD_NOT_F...
910
SIB
906
SIB
is Not Ring Bac...
is Ring Back
OK
OK
912
908
is not Ring Bac...
is Ring Back Ev...

FIG. 9

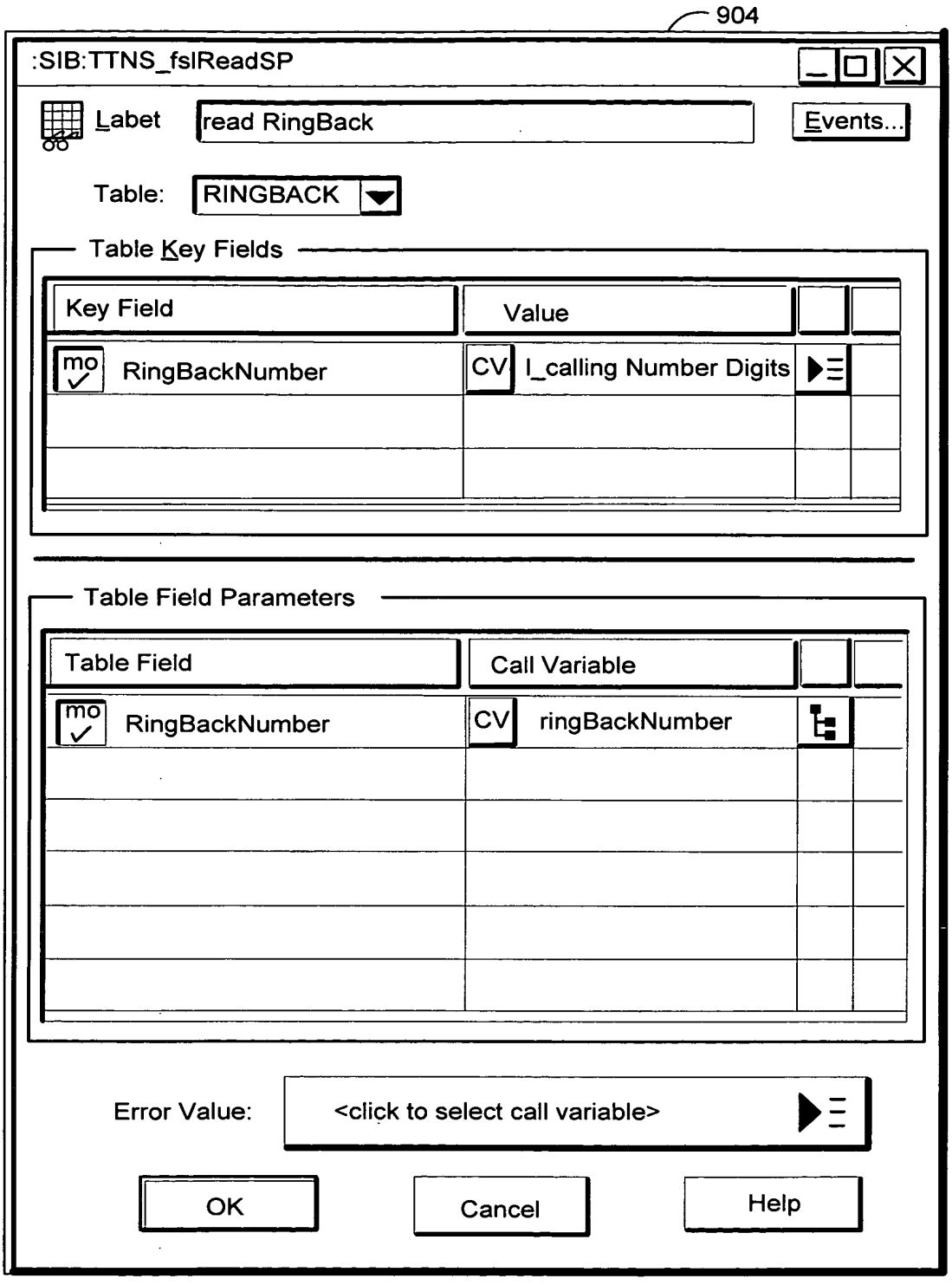
904
:SIB:TTNS_fslReadSP
Label
read RingBack
Events...
Table:
RINGBACK
Table Key Fields
Key Field
Value
mo
RingBackNumber
CV
I_calling Number Digits
Table Field Parameters
Table Field
Call Variable
mo
RingBackNumber
CV
ringBackNumber
Error Value:
<click to select call variable>
OK
Cancel
Help

FIG. 10

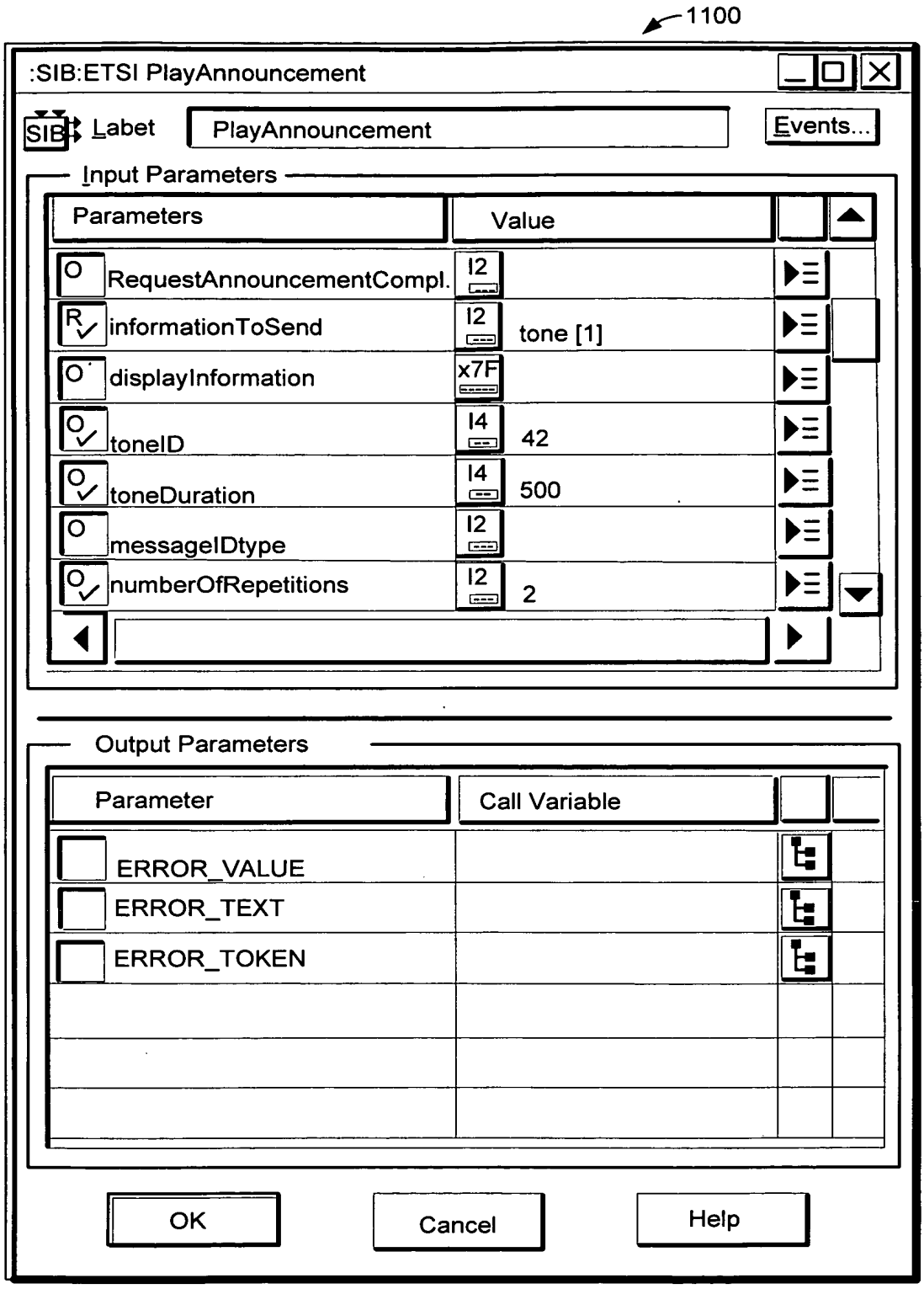
1100
:SIB:ETSI PlayAnnouncement
SIB
Label
PlayAnnouncement
Events...
Input Parameters
Parameters
Value
RequestAnnouncementCompl.
informationToSend
tone [1]
displayInformation
toneID
42
toneDuration
500
messageIDtype
numberOfRepetitions
2
Output Parameters
Parameter
Call Variable
ERROR_VALUE
ERROR_TEXT
ERROR_TOKEN
OK
Cancel
Help

FIG. 11

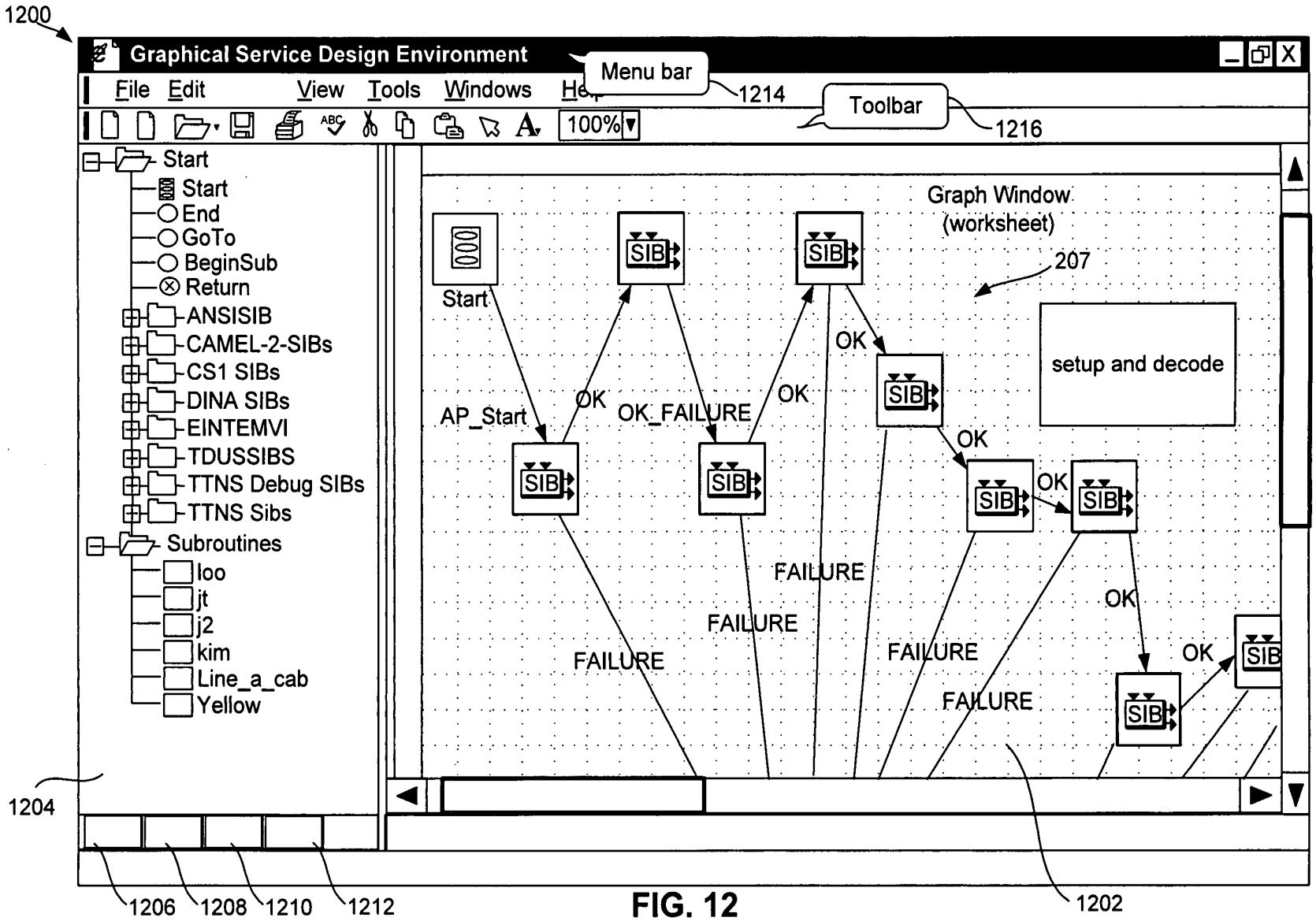
1200
Graphical Service Design Environment
Menu bar
1214
Toolbar
1216
File Edit View Tools Windows
100%
Start
Start
End
GoTo
BeginSub
Return
ANSISIB
CAMEL-2-SIBs
CS1 SIBs
DINA SIBs
EINTEMVI
TDUSSIBS
TTNS Debug SIBs
TTNS Sibs
Subroutines
loo
jt
j2
kim
Line_a_cab
Yellow
Graph Window
(worksheet)
207
setup and decode
Start
AP_Start
SIB
OK
OK_FAILURE
FAILURE
1204
1206
1208
1210
1212
1202

FIG. 12

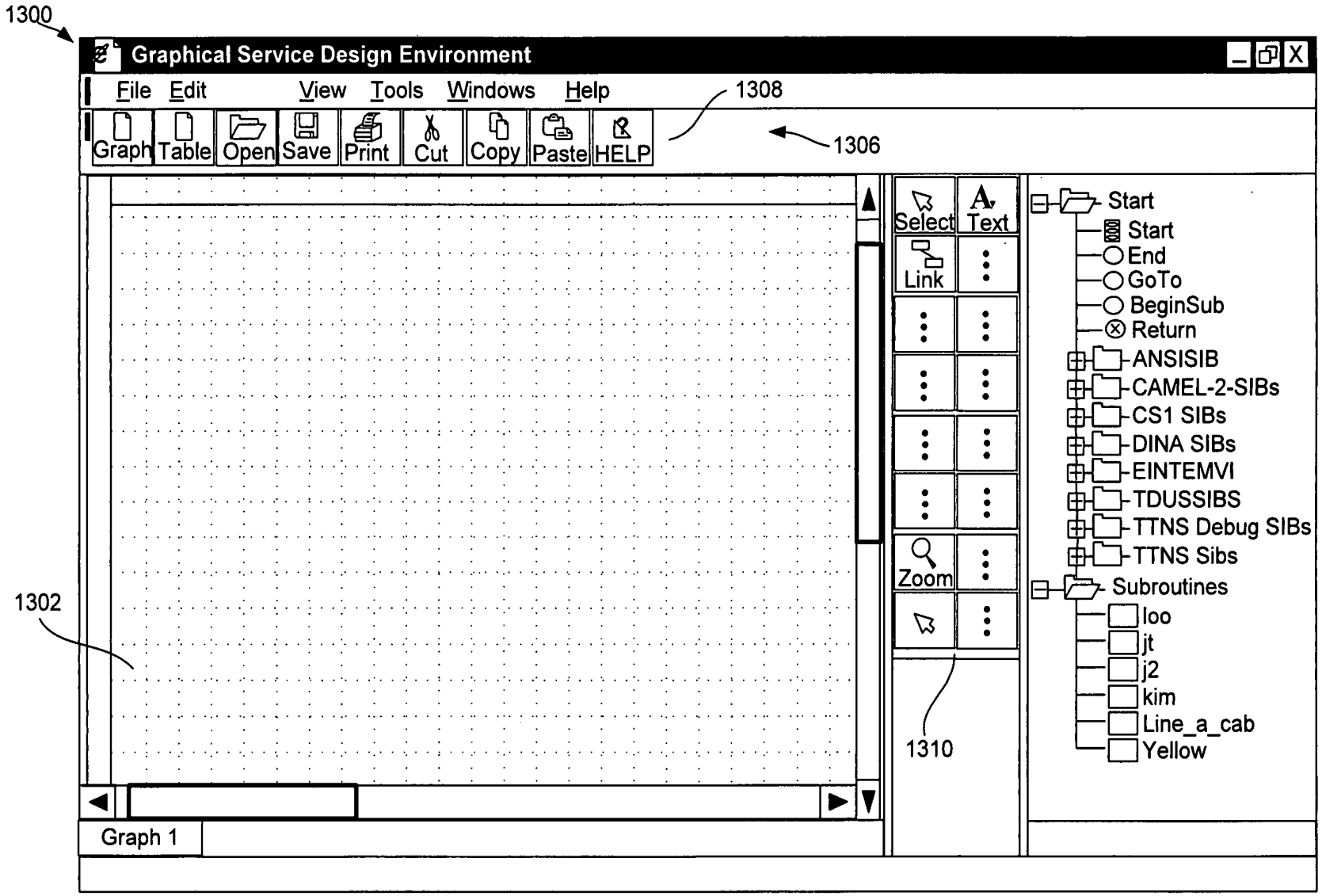
1300
Graphical Service Design Environment
File Edit View Tools Windows Help
1308
Graph Table Open Save Print Cut Copy Paste HELP
1306
Select Text
Link
Zoom
Start
Start
End
GoTo
BeginSub
Return
ANSISIB
CAMEL-2-SIBs
CS1 SIBs
DINA SIBs
EINTEMVI
TDUSSIBS
TTNS Debug SIBs
TTNS Sibs
Subroutines
loo
jt
j2
kim
Line_a_cab
Yellow
1302
1310
Graph 1

FIG. 13

Replacement Sheet

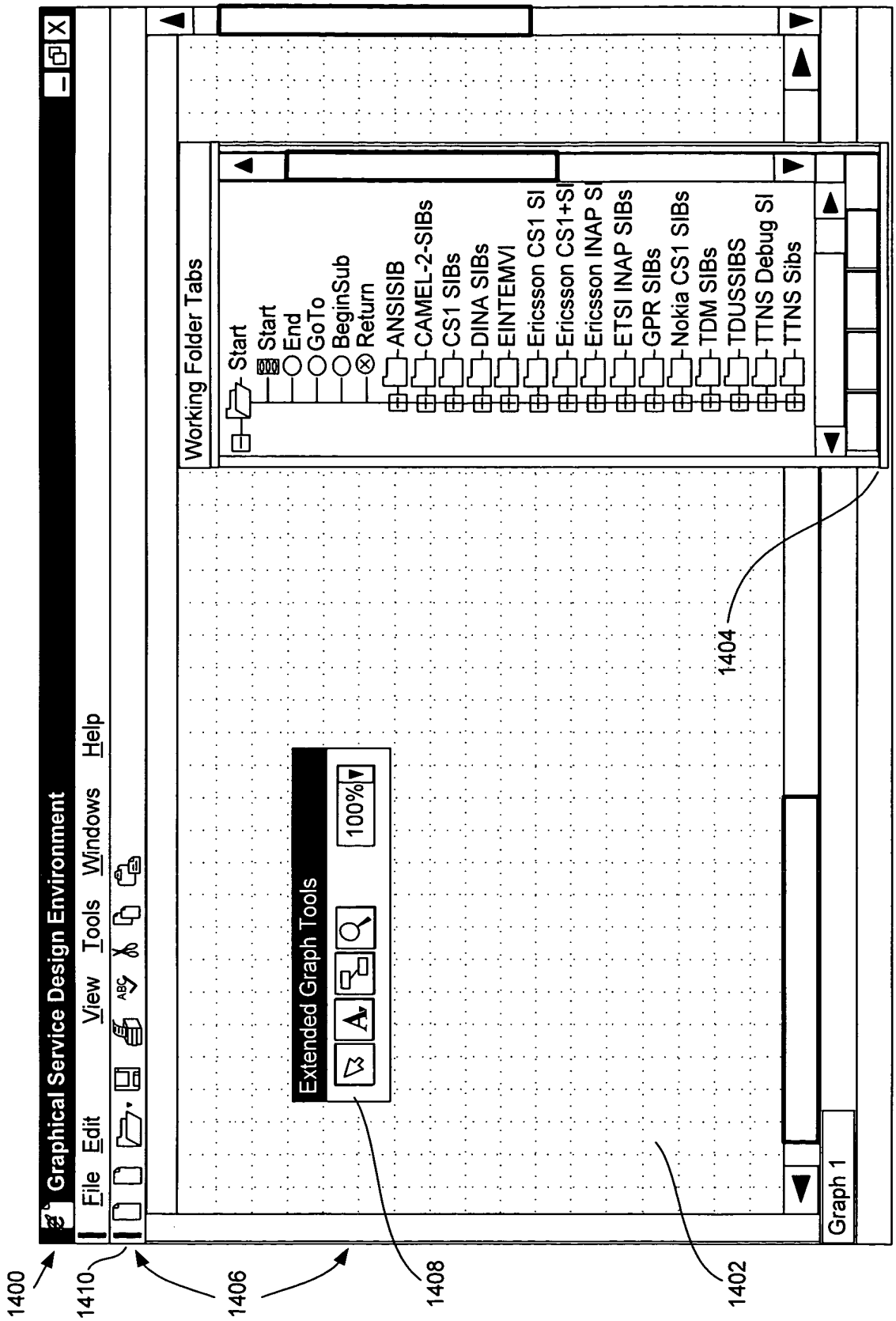

FIG. 14

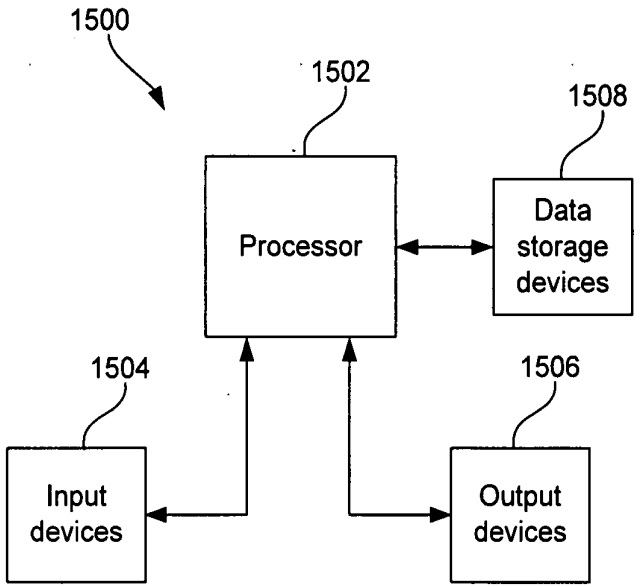
1500
1502
1508
Processor
Data storage devices
1504
1506
Input devices
Output devices

FIG. 15